Figure 1A

Figure 1B

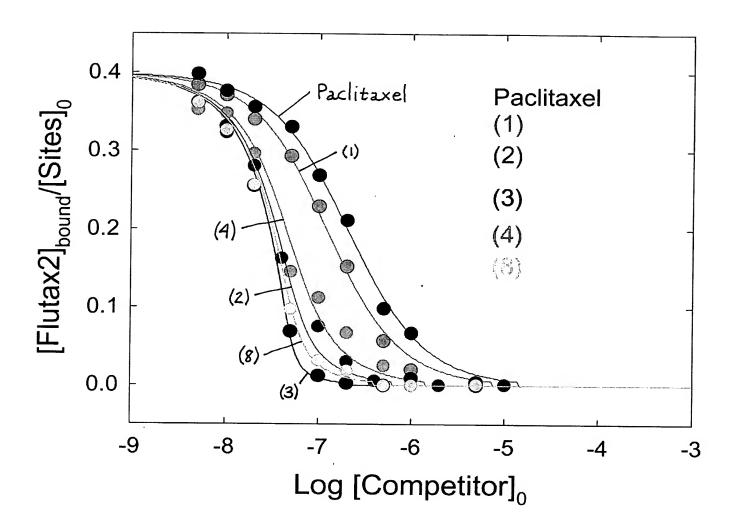


FIGURE 2

Figure 3

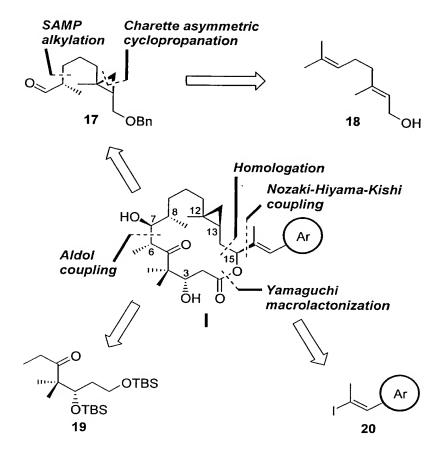


Figure 4

Figure 5

Figure 6

(

Figure 7

Figure 8

Figure 9

Figure 10

Figure 11

Compound				Cell Line			
	1A9	A8		PTX10		PTX22	2
	$IC_{50}(nM)$	$IC_{50}(nM)$	RR	$IC_{50}(nM)$	RR	$IC_{50}(nM)$	RR
Taxol TM	3.0 ± 0.4	10.1 ± 2.9	3.3	89.7 ± 9.0	29.5	53.4 ± 26.5	17.6
Epo A	2.4 ± 0.6	91.0 ± 10.0	38.7	34.2 ± 2.0	14.5	8.7 ± 2.2	3.7
Epo B	0.6 ± 0.3	6.5 ± 0.9	10.7	3.1 ± 0.5	5.2	0.8 ± 0.5	1.3
ಣ	0.17 ± 0.8	1.3 ± 0.65	9.7	0.26 ± 0.11	1.5	0.25 ± 0.17	1.5
104	0.1 ± 0.0	2.4 ± 1.1	23.5	0.7 ± 0.3	6.5	0.6 ± 0.5	5.9
106	0.3 ± 0.1	10.4 ± 2.4	41.4	3.3 ± 1.2	13.2	1.3 ± 1.1	5.3
108	3.5 ± 0.7	18.4 ± 1.4	5.3	16.1 ± 2.1	4.6	3.8 ± 0.3	1.1
109	4.4 ± 2.4	42.9 ± 5.1	9.7	24.7 ± 4.9	5.6	5.2 ± 0.8	1.2
110	2.1 ± 0.8	16.0 ± 5.5	9.7	9.8 ± 1.4	4.7	2.9 ± 1.3	1.4
111	0.7 ± 0.2	11.1 ± 1.0	16.6	3.9 ± 0.4	5.8	0.3 ± 0.1	0.5
112	3.2 ± 0.1	31.9 ± 3.1	10.0	16.1 ± 4.1	5.1	3.2 ± 0.3	1.0
113	0.4 ± 0.1	11.6 ± 6.7	31.7	3.9 ± 1.1	10.5	2.1 ± 1.9	5.8
114	3.3 ± 0.2	27.7 ± 3.2	8.3	12.2 ± 7.4	3.7	6.6 ± 2.6	2.0
115	4.3 ± 0.4	83.0 ± 2.0	19.2	65.3 ± 11.9	15.1	9.6 ± 1.3	2.2
116	8.6 ± 1.2	32.3 ± 2.7	3.8	42.9 ± 10.3	5.0	9.6 ± 1.0	1.1

Figure 12

	Cell Line	KB-31	KB-8511
Compound		IC_{50} (nM)	IC_{50} (nM)
Epo B		0.19	0.12
3		0.11	0.07
104		0.20	0.12
106		0.44	0.29
108		3.04	2.67
109		10.0	6.73
110	ž.	1.16	1.28
111		0.72	0.55
113		0.54	0.41
114		4.87	3.24
115		8.38	7.37
116		9.01	11.65

Figure 13

Figur 14

		Cell line					
	1A9	Α8 (β	274)	ΡΤΧ10 (β:	270)	PTX22 (f	3364)
Compound	IC ₅₀	IC ₅₀	RR	IC ₅₀	RR	IC ₅₀	RR:
epothilone A (Epo A) 1	3.1 ± 0.72	77.3 ± 9.25	24.9	29.1 ± 7.24	9.4	10.1 ± 2.10	3.3
epothilone B (Epo B) 2	0.3 ± 0.05	6.5 ± 1.70	21.7	3.7 ± 1.83	12.3	2.1 ± 1.45	7
paclitaxel (Taxol®)	1.3 ± 0.22	11.3 ± 0.83	8.7	47.7 ± 5.01	36.7	29.4 ± 3.69	22.6
tmt-epo B 3	0.17 ± 0.08	1.3 ± 0.65	7.6	0.26 ± 0.11	1.5	0.25 ± 0.17	1.5
cis-CP-py-epo A 4	2.4 ± 0.99	41.6 ± 8.58	17.3	19.2 ± 9.39	8	4.2 ± 2.18	1.8
trans-CP-epo A 5	10.1 ± 6.59	33.9 ± 5.56	3.4	17.2 ± 5.97	1.7	4.7 ± 1.68	0.5
trans-CP-epo B 6	15	>150	>10	52	3.5	5	0.3
trans-CP-py-epo A 7	0.6 ± 0.22	10.1 ± 2.07	16.8	5.9 ± 1.96	9.8	1.4 ± 0.51	2.3
trans-CP-py-epo B 8	1.7 ± 0.76	27.9 ± 6.73	16.4	10.9 ± 3.52	6.4	5.6 ± 3.24	3.3
trans-CP-pyOH-epo A 9	0.7 ± 0.16	13.0 ± 2.17	18.6	6.1 ± 1.90	8.7	1.1 ± 0.38	1.6
trans-CP-pyOH-epo B 10	1.7 ± 1.12	13.2 ± 5.02	7.8	10.2 ± 3.75	6	2.5 ± 1.41	1.5
trans-CP-tmt-epo A 11	1.2 ± 0.67	11.2 ± 2.30	9.3	3.2 ± 1.13	2.7	0.8 ± 0.38	0.7
trans-CP-tmt-epo B 12	3.5 ± 1.64	28.9 ± 8.01	8.3	5.7 ± 1.96	1.6	11.5 ± 3.86	3.3
trans-CP-5tmpy-epo B 13	14.2 ± 5.73	94 ± 5	6.6	72.0 ± 10.41	5.1	20.6 ± 9.06	1.5
trans-CP-6tmpy-epo B 14	114	>150	>1.3	>150	>1.3	104	0.9

Figure 15

Compound	% TP	KB-31 ^b	KB-8511 ^b	RR
epothilone A (Epo A) 1	78	2.15°	1.91 °	0.88°
epothilone B (Epo B) 2	93	0.19°	0.18 °	0.95°
paclitaxel (Taxol®)	52	2.92°	626°	214°
Tmt-epo B 3	99	0.11	0.07	0.61
cis-CP-py-epo A 4	100°	0.62°	0.45*	0.72°
trans-CP-epo A 5	100°	0.97°	0.64	0.66°
trans-CP-epo B 6	82	1.84	1.09	0.59
trans-CP-py-epo A 7	94 <i>°</i>	0.84°	0.68°	0.81 °
trans-CP-py-epo B 8	. 89	0.90	0.61	0.68
trans-CP-pyOH-epo B 10	87	0.44	0.55	1.25
trans-CP-tmt-epo A 11	93	0.66	0.32	0.48
trans-CP-tmt-epo B 12	91	0.67	0.45	0.67
trans-CP-5tmpy-epo B 13	88	6.88	5.28	0.77
trans-CP-6tmpy-epo B 14	58	109	74	0.68

Figur 16

Compound	Kd (37 °C) ^b	ΔG ⁰ _{app} (37 °C) ^c
epothilone A (Epo A) 1	34 ± 4	-44.5 ± 0.3
epothilone B (Epo B) 2	1.6 ± 0.1	-52.6 ± 0.5
paclitaxel (Taxol®)	93 ± 26	-42.2 ± 0.2
tmt-epo B 3	0.64 ± 0.24	-54.5 ± 1.2
cis-CP-py-epo A 4	5.2 ± 0.8	-49.4 ± 0.3
trans-CP-epo A 5	6.5 ± 0.1	-48.6 ± 0.1
trans-CP-epo B 6	8.0 ± 1.8	-48.0 ± 0.1
trans-CP-py-epo A 7	$\dot{2}.1\pm0.4$	-51.5 ± 0.2
trans-CP-py-epo B 8	1.9 ± 0.6	-51.8 ± 0.8
trans-CP-pyOH-epo B 10	6.0 ± 0.6	-48.9 ± 0.3
trans-CP-tmt-epo A 11	1.6 ± 0.5	-52.2 ± 0.9
trans-CP-tmt-epo B 12	1.8 ± 0.2	-51.8 ± 0.3
trans-CP-5tmpy-epo B 13	1.9 ± 0.3	-51.6 ± 0.5
rans-CP-6tmpy-epo B 14	53 ± 8	-43.1 ± 0.5